

OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

Machine Id 940003

Component Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

GAL)		Oct2022	Mar2023	Sep2023 Jan2024	Mar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098087	GFL0086743	GFL0080379
Sample Date		Client Info		01 Mar 2024	25 Jan 2024	14 Sep 2023
Machine Age	hrs	Client Info		11629	11355	10486
Oil Age	hrs	Client Info		1143	869	10486
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	12	17	19
Chromium	ppm	ASTM D5185m	>4	1	1	3
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	2	0
Lead	ppm	ASTM D5185m	>30	<1	<1	2
Copper	ppm	ASTM D5185m	>35	<1	<1	2
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	30	48	62
Barium	ppm	ASTM D5185m	5	0	0	2
Molybdenum	ppm	ASTM D5185m	50	82	89	273
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	560	519	572	511
Calcium	ppm	ASTM D5185m	1510	1512	1595	1656
Phosphorus	ppm	ASTM D5185m	780	660	825	729
Zinc	ppm	ASTM D5185m	870	922	925	1005
Sulfur	ppm	ASTM D5185m	2040	2427	2567	2891
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	19	25	62
Sodium	ppm	ASTM D5185m		<u> </u>	<u> </u>	<u> </u>
Potassium	ppm	ASTM D5185m	>20	15	16	1 43
Glycol	%	*ASTM D2982				▲ 0.20
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.1	9.7	15.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	21.0	26.8
		method	limit/base	current	history1	history2
FLUID DEGRAD					,	
FLUID DEGRAL Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	16.7	17.9



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